

Docket No.: 24847-017

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Customer Number: 20277
Kevin KREMEYER : Confirmation Number:
Serial No.: : Group Art Unit:
Filed: November 12, 2003 : Examiner: Unknown
For: SHOCK WAVE MODIFICATION METHOD AND SYSTEM

INFORMATION DISCLOSURE STATEMENT

Mail Stop IDS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Copies of the documents listed on attached Form 1449 were sent with the parent application No. 10/342,347.

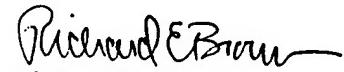
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Serial No.:

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Respectfully submitted,

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Date: November 12, 2003

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)				ATTY. DOCKET NO. 24847-017	SERIAL NO.	
				APPLICANT Kevin KREMEYER		
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U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code ₂ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	US	3,620,484	11-1971	SCHOPPE		
	US	5,263,661	11-1993	RILEY		
	US					
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FOREIGN PATENT DOCUMENTS						
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number & Kind Codes (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation
						Yes No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
		"Igor Adamovich et al.", Igor Adamovich, Vish V. Subramaniam, Walter R. Lempert, and J. William Rich, "Studies of Anomalous Shock Wave Propagation and Dispersion in Weakly Ionized Plasmas", Presented at the 2 nd Weakly Ionized Gases Workshop, Norfolk, VA April 24-25, 1998. Proceedings published by AIAA.				
		J.W. Rich, I.V. Adamovich, V. V. Subramaniam, S.O. Macharet, "Shockwave Propagation in Weakly Ionized Plasmas", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.				
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		V. Skvortsov, Y.E. Kuznetsov, A.I. Klimov, B.G. Efimov, V.S. Markin, A.K. Golovnja, L.D. Vasilenko, A.H. Khvostov, L.P. Grachev, K.V. Khodataev, S.B. Leonov, V.M. Litvinov, L.N. Nedopekin, P.V. Filin, "Results of Experimental Investigation in Wind Tunnels of the Electric Discharge Influence on Aerodynamic Drag and Flow over Models", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.				
		Vladimir Bychkov, "Theoretical Analysis of Plasma Aerodynamic Experiments", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.				
		R.B. Miles, S.O. Macheret, P. Efthimion, "Mechanisms of Shock Propagation and Stability Control in Low Temperature Plasmas", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.				
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		J.A. Johnson III, R. Appartaim, J. Tate, F. Hunte, "Drag Reduction from Non-Equilibrium Plasma Chemistry for Shock-Free Supersonic Flight", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.	
		Yu. Z. Ionikh, N. V. Chernysheva, A.P. Yalin, S.O. Macheret, L. Martinelli, and R. B. Miles, "Shock Wave Propagation Through Glow Discharge Plasmas: Evidence of Thermal Mechanism of Shock Dispersion, Presented at the 38 th Aerospace Sciences Meeting and Exhibit, Reno, NV January 10-13, 2000. Proceedings published by AIAA.	
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		"(Plasma Power) Drag Factor", Published by Jane's Defence Weekly (UK), June 17, 1998.	
		Kiril V. Khodataev, "The Plasma Effects in Air Dynamics. The Gas Discharge Theory Model in Aerodynamic Calculations", Presented at the 2 nd Weakly Ionized Gases Workshop, Norfolk, VA April 24-25, 1998. Proceedings published by AIAA.	
		W. Beaulieu, V. Brovkin, I. Goldberg, A. Klimov, Yu. Kolesnichenko, A. Krylov, V. Lashkov, S. Leonov, I. Mashek, M. Ryvkin, Yu. Serov, "Microwave Plasma Influence on Aerodynamic Characteristics of body in Airflow", Presented at the 2 nd Weakly Ionized Gases Workshop, Norfolk, VA April 24-25, 1998. Proceedings published by AIAA.	
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		K. V. Khodataev, "Physics of Under-Critical Microwave Discharge and its Influence on Supersonic Aerodynamics and Shock Waves", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.	
		B.V. Potapkin, R.I. Asisov, G.S. Baronov, V.K. Jivotov, M.F. Krotov, V.D. Rusanov, "Non-Equilibrium Microwave Discharges in the Fast Gas Flows", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.	
		L. N. Myrabo, "Air Spike, Pulsed Detonation Engine and MHD Slipstream Accelerator Research", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.	
		Y. P. Raizer, N.N. Schneider, "Drag Reduction of Hypersonic Blunt Body Due to Power Source", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.	
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		G. G. Chernyi, "The Impact of Electromagnetic Energy Addition to Air Near the Flying Body on its Aerodynamic Characteristics (Russian Contribution)", Presented at the 2 nd Weakly Ionized Gases Workshop, Norfolk, VA April 24-25, 1998. Proceedings published by AIAA.	
		P. G. P. Toro, L.N. Myrabo, H.T. Nagamatsu, "Experimental Investigation of Hypersonic 'Directed-Energy Air Spike' Inlet at Mach 10-20", Presented at the 35 th Aerospace Sciences Meeting and Exhibit, Reno, NV January 6-10, 1997. Proceedings published by AIAA.	
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		A. S. Yuriev, V.Yu. Borzov, I.V. Ryibka, N.P. Savischenko, A.L. Kuranov, "Dependence of High-Speed Elements Aerodynamics on Local Heat Sources in Approaching Flow. Numerical Simulation and Wind Tunnel Tests", Presented at the 2 nd Weakly Ionized Gases Workshop, Norfolk, VA April 24-25, 1998. Proceedings published by AIAA.	
		P. K. Tretjakov, V.I. Golovitchev, C. Bruno, "Experimental and Numerical Study of Counterflow Jet Flame Stabilization in a Supersonic Air Stream", Presented at the XII ISABE, Melbourne, Australia September 10-15, 1995. Proceedings published by AIAA.	
		C. Bruno, V.I. Golovitchev, P.K. Tretjakov, "New Trends in Improving Hypersonic Vehicles Aerodynamics and Propulsion: Flow Control by External Energy Supply", Presented at the 21 st International Symposium on Space Technology and Science, Sonic City, Omiya, Japan, May 24-31, 1998. Japan Society for Aeronautical and Space Sciences.	
		R. McEwen, "Plasma Generation for Drag Reduction Applications at Low Supersonic Speeds", Presented at the Workshop on Weakly Ionized Gases, US Air Force Academy, June 9-13, 1997. Printed with restricted dissemination by the Department of Defense.	
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